

Data sheet: PT 1000 measuring resistor „secure separation“

Description: Cable-resistance-thermometer, double shrinkable tube – secure separation

Sensor data

Version: thin film precision resistor, platinum
Type: 1xPt1000
Mode of connection: 2-wire circuit
Resistance value: 1000 at 0°C acc. DIN EN 60751:2009
Tolerance: Class B, $\pm 0,3^\circ\text{C}$ at 0°C acc. DIN EN 60751:2009

Electrical values

Recommended measuring current: 0,1 to 0,3 mA
Dielectric strength: 3,8 kV AC, 50 Hz / 1 min.

Temperature

Operating temperatur: $-55^\circ\text{C} \dots +190^\circ\text{C}$

Sensor housing

Material: PTFE
Diameter: max. 4,5 mm
Length: 50 ± 3 mm

Supply line

Version: single litzes, fix connected, UL-Style 1659
Material / Insulation: Cu-nickel plated / PTFE
Cross section: E1x24/7
Outer diameter: 1,7 mm
Colour code: red/white
Length: 1000 mm

Note: Sensor is approved for inverter-fed machines up to 1000 V system voltage acc. to DIN EN 61800-5-1 and DIN EN 50178 ("secure separation"). Altitude factor for surge voltage test for altitude 2000m above sea level acc. overvoltage category III.
→ important for the operation of electric motors on **Siemens inverters**

